Preliminary Product Information



BVM-1300

PROFESSIONAL COLOUR MONITOR

The BVM-1300 is a 13 inch (33 cm) professional colour monitor of outstanding performance and reliability.

FEATURES

High resolution Trinitron picture tube Agriculture correction
Vertical and horizontal sync delay for pulse cross display
Switchable fast/slow response of horizontal AFC scan circuitry
7 Segment LED on-air tally provides pre-set numeric designation of picture source Two composite coded video inputs, plus R,G,B inputs Built-in cross hatch generator

PECIFICATIONS								
SYSTEM 625-line, 50 field			, 50 field	PICTURE PERFORMANCE				
INPUT:	S PERFORMANCE	RFORMANCE		Height	182 mm			
	Connectors	BNCs		Width	239 mm			
	r.g.b. inputs Video	0.7 Vp-p non-composite or 1 Vp-p composite video signal ¹ 6 dB, loop through, high impedance.	non-composite or 1 Vp-p composite	Underscan	Approximately 10% reduction			
			Linearity	inearity Within a central area bounded by a circle whose diameter equals the picture height, within 1% of the picture height.				
	Return loss	At least 46 dB to 5MHz.						
	Maximum safe input	±5 volts		Colour temperature	$6500\ degrees\ K,$ adjustable to other standards.			
	Hum rejection	is less 1	t least 50 dB down and maximum hum than 4 Yrms, where hum is applied onitor in floating ground mode.	Normal chromaticity co-ordinates	Red Green Blue	X 0.640 0.285 0.147	Y 0.349 0.617 0.06	
RGB PERFORMANCE				Convergence error	Less than ± 1	mm within the	central area.	
	Differential gain	Within 5% for a luminance from zero to 30 FL			Outside of th	e central area	, less than ±2 mm	
	Differential phase	Within 5 degrees for a luminance	Calibrated contrast	30 FL at peak white of standard 1 Vp-p signal.				
		from zero	to 30 FL	Raster size stability	Less than 1% picture height, zero to 100 APL at 30 FL peak luminance.			
			to 8 MHz [±] 1 dB	Scan delay				
	DC restoration	Back porch type Back porch level within 1% of peak luminance from 10% to 90% APL	Horizontal delay	Approximately 1/4 line				
SYNCHRONIZATION				Vertical delay	Approximately one half field, vertical scan is expanded unless underscan is activated.			
	Interlace	More than	90%	Resolution	Minimum 400 T	V lines centre	at 30 FL luminance.	
	AFC Slow		factor is more than Hz to 100 Hz.	PAL/SECAM PERFORMANCE				
	Fast	Weighting	factor is less than:-	Luminance channel				
			1 to 2 Hz 2 to 10 Hz 3 to 500 Hz 4 to 10 kHz	Differential gain	Within 5% for	a luminance f	rom zero to 30 FL	
				Differential phase	Within 5 degr 30 FL	ees for a lumi	nance from zero to	
	Line pull range/ Line hold range			Frequency response	Monochrome mode. $100~Hz~to~6.5~MHz~^{\frac{1}{2}}1~dB~(aperture~correction~at~zero)$ Colour mode $Notch~filter~removes~frequency~in~region~of~4.43~MHz~PAL,~4.406~MHz~and~4.25~MHz~SECAM.$			
	/ertical retrace time							
	Norma1	Within 1 ms						

Chrominance channel (PAL)

Demondulation axis U,V



Underscan

Horizontal retrace

time

Within 0.8 ms

Within 10 us

Bandwidth 1.3 MHz (simple and delay modes)

Subcarrier regeneration -1 degree (standard input signal)

Chroma control More than to dB

range Preset at zeron dB

Chrominance channel (SECAM)

Within ±0.5 dB of deviation curve, 3.9 - 4.75 MHz Drift of 4.286 MHz, within 20 kHz. HF de-emphasis

HF limiting Linearity Within 3% to $^{\pm}350$ kHz deviation at 4.406 MHz and 4.250 MHz

Demodulator

Within ±500 Hz

Bandwidth 1.3 MHz

Chroma control More than ±6 dB Preset at 0 dB range Chrominance/

luminance Time error Less than 30 ns

stability

Gain error Less than 5% Aperture correction A continuously adjustable front panel control provides up to 8 dB boost at 4.5 MHz

Back porch type Back porch level within 1% of peak luminance from 10% to 90% APL. DC restoration

GENE RAL

Power input 100/120/220/240v ±10%

Power consumption 126w typical 150w max

Operating ambient temperature $0 - 40^{\circ}C$

Satisfied specification operating temperature 20 - 30°C

Humidity 0 - 90% (non-condensing)

10,000 ft

Altitude

Warm up time to meet specification 30 min

Weight 26 kg

Dimensions 424 mm wide

424 mm wide 276 mm height 454 mm depth (545 mm including power and remote cable connectors) Rack mounting kit available

Design and specification may be subject to change without notice

Contact your local Sony Distributor or write to



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